RPCM BDT

1. COORDINATE DOWNLINK WITH ODIN
   Call ODIN on the FMT DVIS loop to coordinate the upcoming downlink requests.

2. TRANSFER DATA FROM THE RPCM TO THE MDM IN FOUR PASSES

   Node 1:EPS:RPCM #### #

CDDT sel Firmware Detail
sel Commands

For BDT Segment [X], [X] = 1 , 2 , 3 , 4

cmd BDT - Perform
Start Address = _____
Number of Words = _____
Execute

3. PERFORM DATA DUMP FROM MDM TO **MCC-H**

NOTE
If the RPCM is connected to the Primary MDM, a single Data Dump of 32 words is sufficient to downlink the BDT segment results. If the RPCM is connected only to the Secondary MDM (possible for N13B and N14B), then two Data Dumps of 16 words each are required for the full BDT segment downlink.

If prebuilt data dump command is not available

Command Inventory: Data Dump Preparation
Data Dump Preparation

sel Source Device
Choose device from the list.
Input _____
Input 16 or 32
√Memory Type - DRAM
sel One-Shot Delivery
Input Save Dump to File
sel path/filename to save data dump

NOTE
Every pass through the Data Dump portion of this procedure must write the data to a different filename to avoid loss of data.

sel Select Dump File
Navigate to the directory you want to save the dump file to.
sel the filename
sel Store In Command Inventory

Uplink Data Dump command

Command Inventory: Data Dump Command Inventory
Data Dump Command Inventory

Select Data Dump command for correct RPCM.

sel Submit to FMT

Downlink Manager
Downlink FMT Manager

√FMT Dump Status - 100 % Complete

If Entire Hindsight Buffer (all four BDT segments) has been downlinked
Proceed to step 4.

If Entire Hindsight Buffer (all four BDT segments) have not be downlinked
Return to step 1 and downlink the next BDT Segment.

4. PROCESS AND INTERPRET THE HINDSIGHT BUFFER DATA
Process the four or eight data dump files through the TBS application and plot the output.

Determine if the plot is indicative of an overcurrent trip.

RPCM ADDRESS TABLE

BDT Segment	Start Address	Number of Words
1	4096	28
2	4124	28
3	4152	28
4	4180	20

MDM ADDRESS TABLE

RPCM Name	MDM BDT Buffer Address	Connected to Both N1 MDMs?	Connected MDM
RPCM N13B A	2474048	N	N1-2
	2474064	address of second dump for N13B A	
RPCM N13B B	2474560	N	N1-2
	2474576	address of second dump for N13B B	
RPCM N13B C	2475072	N	N1-2
	2475088	address of second dump for N13B C	
RPCM N14B A	2481728	N	N1-1
	2481744	address of second dump for N14B A	
RPCM N14B B	2482240	N	N1-1
	2482256	address of second dump for N14B B	
RPCM N14B C	2482752	N	N1-1
	2482768	address of second dump for N14B C	
RPCM N1RS1 A	2479168	Y	Both
RPCM N1RS1 B	2479680	Y	Both
RPCM N1RS1 C	2480192	Y	Both
RPCM N1RS2 A	2476608	Y	Both
RPCM N1RS2 B	2477120	Y	Both
RPCM N1RS2 C	2477632	Y	Both